

Jurisdiction and Rule Web address	Rule Number	Rule Language
ARCI Model Rule http://www.uar-tip.org/industry_service/download_model_rules	ARCI-011-020 K.	The use of agents that elevate the horse's TCO ₂ or Base excess level above those existing naturally in the untreated horse at normal physiological concentrations is prohibited. The following levels also apply to blood gas analysis: (1) The regulatory threshold for TCO ₂ is 37.0 millimoles per liter of plasma/serum or a base excess level of 10.0 millimoles, and; (2) The decision level to be used for the regulation of TCO ₂ is 37.0 millimoles per liter of plasma/serum plus the measurement uncertainty of the laboratory analyzing the sample, or a base excess level of 10.4 millimoles per liter of plasma/serum.
United States Flat Racing		
Arizona http://www.azsos.gov/public_services/Title_19/19-02.htm	Not found	
Arkansas www.dfa.arkansas.gov/offices/racingCommission/Pages/thoroughbreds.aspx	1231 B. 3.	The TCO ₂ level in the blood shall not exceed: a. 39.0 millimole per liter if the horse is competing on furosemide (lasix) or other permitted medication known to affect TCO ₂ ; b. 37.0 millimole per liter if the horse is not competing on furosemide (lasix) or other permitted medication known to affect TCO ₂ .
California http://www.chrb.ca.gov/rules_law.html	1843.6 (d)	TCO ₂ levels in the blood serum or plasma shall not exceed: (1) 37.0 millimoles per liter of serum or plasma.
Colorado http://www.colorado.gov/cs/Satellite/Rev-Racing/RRAC/1209030659304	Not Found	
Delaware http://regulations.delaware.gov/AdminCode/title3/1000/1001/index.shtml#TopOfPage	Title 3 1001 15.15.2	Under this protocol, the prohibitive Base Excess concentrations are as follows: Base Excess level of 10.0 mmol/l (mEq/l) or higher for non-furosemide (Salix) treated horses and Base Excess (BE) level of 12.0 mmol/l (mEq/l) or higher for furosemide (Salix) treated horse. The level of uncertainty will be included before it is considered a violation of these Rules. The level of uncertainty is 0.4 mmol/l (mEq/l) and a positive test report must include this level of uncertainty. A horse must show a Base Excess (BE) level of 10.4 mmol/l (mEq/l) or higher for non-furosemide (Salix) treated horse and Base Excess (BE) level of 12.4 mmol/l (mEq/l) or higher for furosemide (Salix) treated horse, in order for a violation to be reported under this Rule.
Florida www.myfloridalicense.com/dbpr/pmw/statutes.html	Not found	
Idaho http://adminrules.idaho.gov/rules/current/11/index.html#Racing%20	11.04.11 - 400. 02.	Positive Test Level. Test samples collected from a horse either before or within one (1) hour following a race may not exceed thirty-seven point zero (37.0) millimoles of total carbon dioxide concentration per liter of serum or plasma. A serum total carbon dioxide level exceeding this value constitutes a positive test.
Illinois www.state.il.us/agency/irb/	§ 603.180 c)	The TCO ₂ level in the blood shall be less than 37.0 millimoles per liter , plus the measurement uncertainty of the laboratory analyzing the sample.
Indiana www.in.gov/legislative/iac/title71.html	71 IAC 8.5-13-2 (a)	The stewards shall order scratched or disqualified: (1) any horse that races or is scheduled to race that registers readings of: (A) bicarbonate (HCO₃) at thirty-six (36) or higher; and (B) a pH level at seven and four hundred forty-five thousandths (7.445) or higher ; and (2) any horse on the bleeder's list that races or is scheduled to race that registers readings of: (A) bicarbonate (HCO₃) at thirty-eight (38) or higher; and (B) a pH level at seven and four hundred seventy-thousandths (7.470) or higher ; ...
Iowa www.state.ia.us/irgc/Content.htm#top	Not found	
Kansas http://krgc.ks.gov/index.php?id=25	Not found	

Kentucky http://www.lrc.ky.gov/kar/TITLE810.HTM	810 KAR 1:018 §21 (1) (c)	A specimen consisting of at least two (2) blood tubes shall be taken from a horse to determine the TCO2 concentration in the blood serum or plasma of the horse. If the commission laboratory determines that the TCO2 level exceeds thirty-seven (37) millimoles per liter , the executive director of the commission shall be informed of the positive finding.
Louisiana http://horseracing.la.gov/rules.html	§1720 B. 3.	The pre- or post-race TCO2 level in the blood shall not exceed 36.0 milliequivalents per liter (mEq/L).
Maryland www.dsd.state.md.us/comar/subtitle_chapters/09_Chapters.aspx#Subtitle10	Not found	
Massachusetts http://www.mass.gov/ocabr/government/ocagencies/src-lp/rules-and-regs-src/	4.52:(9)(a), (b)	(a) The regulatory threshold for TCO2 is 37.0 millimoles per liter of plasma/serum for horses not treated with furosemide and 39.0 millimoles per liter of plasma/serum for horses treated with furosemide and; (b) The decision level to be used for the regulation of TCO2 is 37.0 millimoles per liter of plasma/serum plus the measurement uncertainty of the laboratory analyzing the sample for horses not treated with furosemide and 39.0 millimoles per liter of plasma/serum for horses treated with furosemide plus the measurement uncertainty of the laboratory analyzing the sample for horses treated with furosemide.
Michigan http://www.michigan.gov/mgcb/0,1607,7-120-57232_57204_57205---,00.html	Not found	
Minnesota http://www.mrc.state.mn.us/Racing/default.html	7890.0110 Subp. 7 D.	The pre-race or post-race TCO2 level in the blood shall not exceed 37 millimoles per liter of blood.
Montana www.mtrules.org/gateway/ChapterHome.asp?Chapter=32.28	Not found	
Nebraska www.horseracing.state.ne.us/	Not found	
Nevada http://gaming.nv.gov/index.aspx?page=51	Not found	
New Jersey	////////////////////////////////////	////////////////////////////////////
New Mexico http://nmrc.state.nm.us/dyn/rules_reg_00.html	Title 15 Chpt 2 Part 6 15.2.6.9 K. (1), (2)	(1) The regulatory threshold for TCO2 is 37.0 millimoles per liter of plasma/serum plus the measurement uncertainty of the laboratory analyzing the sample, or a base excess level of 10.4 millimoles per liter of plasma/serum; (2) The decision level to be used for the regulation of TCO2 is 37.0 millimoles per liter of plasma/serum plus the measurement uncertainty of the laboratory analyzing the sample, or a base excess level of 10.4 millimoles per liter of plasma/serum;
New York www.racing.state.ny.us/racing/racing.home.htm	4043.8	... It shall be a violation of this rule where the horse's TCO2 level equals or exceeds 37 millimoles per liter or, for horses administered furosemide pursuant to section 4043.2(b)(6) during the four hours before the blood sample was taken, 39 millimoles per liter .
North Dakota www.legis.nd.gov/information/acdata/html/Title69.5.html	Not found	
Ohio http://codes.ohio.gov/oac/3769	3769-8-01 (B) (4)	It shall be deemed a violation of this rule: (d) Should a test sample of blood taken from a horse show a concentration of total carbon dioxide in the plasma and/or serum in excess of 37 millimoles per liter ; or
Oklahoma www.ohrc.org/rulesonline.html	Not found	
Oregon http://arcweb.sos.state.or.us/rules/OARS_400/OAR_462/462_tofc.html	Not found	
Pennsylvania http://www.pacode.com/secure/data/058/partIVtoc.html	Not found	

South Dakota http://legis.state.sd.us/rules/DisplayRule.aspx?Rule=20:04	Not found	
Texas www.txrc.state.tx.us/laws/racing_rules.php	Title 16 Part 8 Chapter 319 Subchapter D Division 3 §319.363 (a)(3)	A positive finding by a chemist of total carbon dioxide level at or above 37 millimoles per liter in a race horse serum specimen is an excess level of total carbon dioxide and prima facie evidence that the race horse was administered a bicarbonate-containing substance or other alkalinizing substance in violation of this section.
Virginia www.vrc.virginia.gov/racingrules.shtml	11VAC10-180-90 B.	Test values. A serum or plasma total carbon dioxide level exceeding 37.0 millimoles per liter constitutes a positive test.
Washington www.whrc.wa.gov/?page=400	WAC 260-70-675	... Test samples must not exceed 37.0 millimoles of total carbon dioxide concentration per liter of serum or plasma. A serum or plasma total carbon dioxide level exceeding this value is a violation of this rule. Penalties will be assessed as a Class 4 violation as provided in WAC 260-84-110(6). ...
West Virginia www.wvracingcommission.com/wvrc_010.htm	§178-1-49 49.12	. Alkalinizing Substances. The use of agents that elevate the horse's TCO2 or base excess level above those existing naturally in the untreated horse at normal physiological concentrations is prohibited. The following levels also apply to blood gas analysis: 49.12.a. The regulatory threshold for TCO2 in non-furosemide (lasix®) treated horses is 37.0 millimoles per liter of plasma/serum or a base excess level of 10.0 millimoles; 49.12.b. The regulatory threshold for TCO2 in furosemide (lasix®) treated horses is 39.0 millimoles per liter of plasma/serum or a base excess level of 12.0 millimoles; and 49.12.c. The measure of uncertainty in testing for TCO2 shall be .4 millimoles per liter of plasma/serum. A horse must show a base excess level of 10.4 millimoles or higher for non-furosemide (lasix®) treated horses and a base excess level of 12.4 millimoles or higher for a furosemide (lasix®) treated horse, in order for a violation to be reported under this rule.
Wyoming http://parimutuel.state.wy.us/Rules.aspx	Not found	
Ten jurisdictions hav rules that provide for a single regulatory theshold of 37 millimoles per liter of plasma/blood/serum.		
Four jurisdictions have rules that have regulatory threaholds of 37 millimoles not horses not on Lasix/Salix and 39 millimoles for horses on Lasix/Salix		
one jurisdiction has a rule that sets the regulatory threshold at 36 milliequivalents per liter of blood		
one jurisdiction has a rule that sets the regulatory threshold at 36 for bicarbonate and the pH level of 7.445 for non lasix/salix horses and 38 bicarbonate and a pH level of 7.470 for lasix/salix horses.		
One jurisdiction has a rule that sets the regulatory thresholds at a Base Excess level of 10.0 millimoles for non lasix/salix horses and 12 millimoles Base Excess for lasix/salix treated horses.		
In sixteen jurisdictions a rule setting a regulatory threshold for TCO2 was not found		